



**AIR POLLUTION CONTROL DISTRICT OF JEFFERSON COUNTY, KENTUCKY**

**TITLE V OPERATING PERMIT**

Permit No.: 175-00-TV (R1)

Plant ID: 0126

Effective Date: 30 October 2002

Expiration Date: 30 October 2007

UTM Northing: 4226.50

UTM Easting: 597.30

SIC: 4911

NAICS: 221112

AFS: 00126

Permission is hereby given by the Air Pollution Control District of Jefferson County to operate equipment located at:

**Louisville Gas & Electric Company  
Cane Run Generating Station  
5252 Cane Run Road  
Louisville, KY 40232**

in accordance with the permit application on file with the District and under the conditions in the permit. This permit and the authorization to operate the emission units listed shall expire on midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the owner or operator may continue to operate in accordance with the terms and conditions of this permit beyond the expiration date, provided that a complete renewal application is submitted to the District no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Permit Applicant: Louisville Gas & Electric Company

Responsible Official: John N. Voyles, Jr.

Title of Responsible Official: General Manager, Cane Run, Ohio Falls, & Combustion Turbines

Date Application Received: 21 February 1997

Date Application Administratively Complete: 18 April 1997

Date Public Notice Given: 12 December 2000

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Reviewing Engineer (61)

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Air Pollution Control Officer

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**Title V Permit Revisions/Changes**

| <b>Revision No.</b> | <b>Date of Reissuance</b> | <b>Public Notice Date</b> | <b>Type</b>    | <b>Emission Unit/Page No.</b>                     | <b>Description</b>  |
|---------------------|---------------------------|---------------------------|----------------|---|---|
| Rev. 1              | 10/01/2002                | 12/17/2000                | Administrative | Preamble, Insignificant Activities, E-2, E-4, E-6 | Updated preamble and insignificant activities.<br>Removed Method 22 from emission points E2, E4, and E6 |

### Abbreviations and Acronyms

|                  |   |
|------------------|---|
| AC               | - Additional Condition                          |
| AFS              | - AIRS Facility Subsystem                       |
| AIRS             | - Aerometric Information Retrieval System       |
| APCD             | - Air Pollution Control District                |
| ASL              | - Adjusted Significant Level                    |
| atm              | - Atmosphere                                    |
| BACT             | - Best Available Control Technology             |
| Btu              | - British Thermal Unit                          |
| °C               | - Degrees Centigrade                            |
| CEMS             | - Continuous Emission Monitoring System         |
| CAAA             | - Clean Air Act Amendments (15 November 1990)   |
| cf               | - Cubic foot                                    |
| DOE              | - District Only Enforceable                     |
| °F               | - Degrees Fahrenheit                            |
| gal              | - Gallon  |
| HAP              | - Hazardous Air Pollutant                       |
| Hg               | - Mercury                                       |
| hr               | - hour  |
| lbs              | - Pounds  |
| l                | - Liter   |
| MACT             | - Maximum Achievable Control Technology         |
| m                | - Meter   |
| mg               | - Milligram                                     |
| mm               | - Millimeter                                    |
| MM               | - Million                                       |
| MOCS             | - Management of Change System                   |
| NAICS            | - North American Industry Classification System |
| NSR              | - New Source Review                             |
| NO <sub>x</sub>  | - Nitrogen oxides                               |
| NSPS             | - New Source Performance Standards              |
| PM               | - Particulate Matter                            |
| PM <sub>10</sub> | - Particulate matter less than 10 microns       |
| ppm              | - Parts per million                             |
| PSD              | - Prevention of Significant Deterioration       |
| PMP              | - Preventive Maintenance Plan                   |
| psia             | - Pounds per square inch absolute               |
| RACT             | - Reasonably Available Control Technology       |
| SIC              | - Standard Industrial Classification            |
| SIP              | - State Implementation Plan                     |
| SO <sub>2</sub>  | - Sulfur dioxide                                |
| TAL              | - Threshold Ambient Limit                       |
| TAP              | - Toxic Air Pollutant                           |
| tpy              | - Tons per year                                 |
| VOC              | - Volatile Organic Compound                     |
| UTM              | - Universal Transverse Mercator                 |

### **Preamble**

Title V of the Clean Air Act Amendments of 1990 required EPA to create an operating permit program for implementation by state or local air permitting authorities. The purposes of this program are (1) to require an affected company to assume full responsibility for demonstrating compliance with applicable regulations; (2) to capture all of the regulatory information pertaining to an affected company in a single document; and (3) to make permits more consistent with each other.

A company is subject to the Title V program if it meets any of several criteria related to the nature or amount of its emissions. The Title V operating permit specifies what the affected company is, how it may operate, what its applicable regulations are, how it will demonstrate compliance, and what is required if compliance is not achieved. In Jefferson County, Kentucky, the Air Pollution Control District (APCDJC) is responsible for issuing Title V permits to affected companies and enforcing local regulations and delegated federal and state regulations. EPA may enforce federal regulations but not "District Only Enforceable Regulations".

Title V offers the public an opportunity to review and comment on a company's draft permit. It is intended to help the public understand the company's compliance responsibility under the Clean Air Act. Additionally, the Title V process provides a mechanism to incorporate new applicable requirements. Such requirements are available to the public for review and comment before they are adopted.

Title V Permit general conditions define requirements which are generally applicable to all Title V companies under the jurisdiction of APCDJC. This avoids repeating these requirements in every section of the company's Title V permit. Company-specific conditions augment the general conditions as necessary; these appear in the sections of the permit addressing individual emission units or emission points.

The general conditions include references to regulatory requirements that may not currently apply to the company, but which provide guidance for potential changes at the company or in the regulations during the life of the permit. Such requirements may become applicable if the company makes certain modifications or a new applicable requirement is adopted.

When the applicability of a section or subpart of a regulation is unclear, a clarifying citation will be made in the company's Title V permit at the emission unit/point level. Comments may also be added at the emission unit/point level to give further clarification or explanation.

The source's Title V permit may include a list of "insignificant activities," as defined in District Regulation 2.16, section 1.22 which was current as of the date the permit was proposed for review by USEPA, Region 4. Activities so identified may be insignificant with regard to application disclosure requirements but may still have generally applicable requirements that continue to apply. No periodic monitoring shall be required for facilities designated as insignificant activities.

### General Conditions

1. **Compliance** - The owner or operator shall comply with all applicable requirements and with all terms and conditions of this permit. Any noncompliance shall constitute a violation of the Act, State and District regulations and shall cause the source to be subject to enforcement actions including, but not limited to, the termination, revocation and reissuance, or revision of this permit, or denial of a permit application to renew this permit. Notwithstanding any other provision in the Jefferson County portion of the Kentucky SIP approved by EPA, any credible evidence may be used for the purpose of establishing whether the owner or operator is in compliance with, has violated, or is in violation of any such plan. (Regulation 2.16, sections 4.1.3, 4.1.13.1 and 4.1.13.7)
2. **Compliance Certification** - The owner or operator shall certify, annually or more frequently if required in applicable regulations, compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall meet the requirements of Regulation 2.16, sections 3.5.11 and 4.3.5. The owner or operator shall submit the annual compliance certification directly to the following address as well as to the District, as set forth in Regulation 2.16, section 4.3.5.4:  
  

***US EPA - Region IV  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-8960***
3. **Compliance Schedule** - A compliance schedule must meet the requirements of Regulation 2.16, section 3.5.9.5. The owner or operator shall submit a schedule of compliance for each emission unit that is not in compliance with all applicable requirements. A schedule of compliance shall be supplemental to, and shall not condone noncompliance with, the applicable requirements on which it is based. For each schedule of compliance, the owner or operator shall submit certified progress reports at least semi-annually, or at a more frequent period if specified in an applicable requirement or by the District in accordance with Regulation 2.16 section 4.3.4. The progress reports shall contain:
  - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when activities, milestones, or compliance were achieved.
  - b. An explanation of why dates in the schedule of compliance were not or will not be met, and preventive or corrective measures adopted.
4. **Duty to Supplement or Correct Application** - If the owner or operator fails to submit relevant facts or has submitted incorrect information in the permit application, it shall, upon discovery of the occurrence, promptly submit the supplementary facts or corrected information in accordance with Regulation 2.16, section 3.4.

5. **Emergency Provision**

- a. An emergency shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emission limitations. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - i. An emergency occurred and that the owner or operator can identify the cause of the emergency.
  - ii. The permitted facility was at the time being properly operated.
  - iii. During the period of the emergency the owner or operator expeditiously took all reasonable steps, consistent with safe operating practices, to minimize levels of emissions that exceeded the emission standards or other requirements in this permit.
  - iv. The owner or operator submitted notice meeting the requirements of Regulation 1.07 of the time when emissions limitations were exceeded because of the emergency. This notice must fulfill the requirement of this condition, and must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- b. In an enforcement proceeding, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
- c. This condition is in addition to any emergency or upset provision contained in an applicable requirement. (Regulation 2.16, sections 4.7.1 through 4.7.4)

6. **Emission Fees Payment Requirements** - The owner or operator shall pay annual emission fees in accordance with Regulation 2.08. Failure to pay the emissions fees when due shall constitute a violation of District Regulations. Such failure is subject to penalties and an increase in the fee of an additional 5% per month up to a maximum of 25% of the original amount due. In addition, failure to pay emissions fees within 60 days of the due date shall automatically suspend this permit to operate until the fee is paid or a schedule for payment acceptable to the District has been established. (Regulation 2.08, section 1.3)

7. **Emission Offset Requirements** - The owner or operator shall comply with the requirements of Regulation 2.04.

8. **Enforceability Requirements** - Except for the conditions that are specifically designated as "District Only Enforceable Conditions", all terms and conditions of this permit, including any provisions designed to limit a source's potential to emit, are enforceable by EPA and citizens as specified under the Act. (Regulation 2.16, sections 4.2.1 and 4.2.2)



9. **Enforcement Action Defense**

- a. It shall not be a defense for the owner or operator in an enforcement action that it would have been necessary for the owner or operator to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- b. The owner or operator's failure to halt or reduce activity may be a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operation. (Regulation 2.16, sections 4.1.13.2 and 4.1.13.3)

10. **Hazardous Air Pollutants and Sources Categories** - The owner or operator shall comply with the applicable requirements of Regulations 5.02 and 5.14.

11. **Information Requests** - The owner or operator shall furnish to the District, within a reasonable time, information requested in writing by the District, to determine whether cause exists for revising, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The owner or operator shall also furnish, upon request, copies of records required to be kept by this permit. (Regulation 2.16, section 4.1.13.6) If information is submitted to the District under a claim of confidentiality, the source shall submit a copy of the confidential information directly to EPA. (Regulation 2.07, section 10.2)

12. **Insignificant Activities** - The owner or operator shall notify the District in a timely manner of any proposed change to an insignificant activity that would require a permit revision. (Regulation 2.16, Section 5)

13. **Inspection and Entry** - Upon presentation of credentials and other documents as required by law, the owner or operator shall allow the District or an authorized representative to perform the following during reasonable hours:

- a. Enter the premises to inspect any emissions-related activity or records required in this permit.
- b. Have access to and copy records required by this permit.
- c. Inspect facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required by this permit.
- d. Sample or monitor substances or parameters to assure compliance with this permit or any applicable requirements. (Regulation 2.16, section 4.3.2)

14. **Monitoring and Related Record Keeping and Reporting Requirements** - The owner or operator shall comply with the requirements of Regulation 2.16, section 4.1.9. The owner or operator shall submit all required monitoring reports at least once every six months, unless more frequent reporting is required by an applicable requirement. The reporting period shall be January 1st through June 30th and July 1st through December 31st of each calendar year. All reports shall be postmarked by the 60th day following the end of each reporting period.

If surrogate operating parameters are monitored and recorded in lieu of emission monitoring, then an exceedance of multiple parameters may be deemed a single violation by the District for enforcement purposes.

15. **Off-permit Documents** - Any applicable requirements, including emission limitations, control technology requirements, or work practice standards, contained in an off-permit document cannot be changed without undergoing the permit revision procedures in Regulation 2.16, Section 5. (Regulation 2.16, section 4.1.5)
16. **Operational Flexibility** - The owner or operator may make changes without permit revision in accordance with Regulation 2.16, section 5.8.
17. **Permit Amendments (Administrative)** - This permit can be administratively amended by the District in accordance with Regulation 2.16, sections 2.3 and 5.4.
18. **Permit Application Submittal** - The owner or operator shall submit a timely and complete application for permit renewal or significant revision. If the owner or operator submits a timely and complete application then the owner or operator's failure to have a permit is not a violation until the District takes formal action on this permit application. This protection shall cease to apply if, subsequent to completeness determination, the owner or operator fails to submit, by the deadline specified in writing by the District, additional information required to process the application as required by Regulation 2.16, sections 3 and 5.2.
19. **Permit Duration** - This permit is issued for a fixed term of 5 years, in accordance with Regulation 2.16, section 4.1.8.3.
20. **Permit Renewal, Expiration and Application** - Permit renewal, expiration and application procedural requirements shall be in accordance with Regulation 2.16, sections 4.1.8.2 and 5.3. This permit may only be renewed in accordance with section 5.3.
21. **Permit Revisions** - No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit. (Regulation 2.16, section 4.1.16)
22. **Permit Revision Procedures (Minor)** - Except as provided in 40 CFR Part 72, the Acid Rain Program, this permit may be revised in accordance with Regulation 2.16, section 5.5.
23. **Permit Revision Procedures (Significant)** - A source seeking to make a significant permit revision shall meet all the Title V requirements for permit applications, issuance and renewal, in accordance with Regulation 2.16, section 5.7, and all other applicable District Regulations.
24. **Permit Revocation and Termination by the District** - The District may terminate this permit only upon written request of the owner or operator. The District may revoke a permit for cause, in accordance with Regulation 2.16, section 5.11.1.1 through 5.11.1.5. For purposes of Section 5, substantial or unresolved noncompliance includes, but is not limited to:

- a. Knowingly operating process or air pollution control equipment in a manner not allowed by an applicable requirement or that results in excess emissions of a regulated air pollutant that would endanger the public or the environment.
  - b. Failure or neglect to furnish information, analyses, plans, or specifications required by the District.
  - c. Knowingly making any false statement in any permit application.
  - d. Noncompliance with Regulation 1.07, section 4.2; or
  - e. Noncompliance with KRS Chapter 77.
25. **Permit Shield** - The permit shield shall apply in accordance with Regulation 2.16, section 4.6.1.
26. **Prevention of Significant Deterioration of Air Quality** - The owner or operator shall comply with the requirements of Regulation 2.05.
27. **Property Rights** - This permit shall not convey property rights of any sort or grant exclusive privileges in accordance with Regulation 2.16, section 4.1.13.5.
28. **Public Participation** - Except for modifications qualifying for administrative permit amendments or minor permit revision procedures, all permit proceedings shall meet the requirements of Regulations 2.07, Section 1; and 2.16, sections 5.1.1.2 and 5.5.4.
29. **Reopening For Cause** - This permit shall be reopened and revised by the District in accordance with Regulation 2.16 section 5.9.
30. **Reopening for Cause by EPA** - This permit may be revised, revoked and reissued or terminated for cause by EPA in accordance with Regulation 2.16 section 5.10.
31. **Risk Management Plan (112(r))** - For each process subject to Section 112(r) of the Act, the owner or operator shall comply with 40 CFR Part 68 and Regulation 5.15.
32. **Severability Clause** - The conditions of this permit are severable. Therefore, if any condition of this permit, or the application of any condition of this permit to any specific circumstance, is determined to be invalid, the application of the condition in question to other circumstances, as well as the remainder of this permit's conditions, shall not be affected. (Regulation 2.16, section 4.1.12)
33. **Stack Height Considerations** - The owner or operator shall comply with the requirements of Regulation 2.10.

34. **Startups, Shutdowns, and Malfunctions Requirements** - The owner or operator shall comply with the requirements of Regulation 1.07.

35. **Submittal of Reports, Data, Notifications, and Applications**

- a. Applications, reports, test data, monitoring data, compliance certifications, and any other document required by this permit as set forth in Regulation 2.16 sections 3.1, 3.4, 3.5, 4.1.13.6, 5.8.5 and 5.11.7 shall be submitted to:

*Air Pollution Control District of Jefferson County  
850 Barret Ave  
Louisville, KY 40204-1745*

- b. Documents which are specifically required to be submitted to EPA as set forth in Regulation 2.16 sections 3.3, and 5.8.5 shall be mailed to EPA at the following address:

*US EPA - Region IV  
APTMD - 12th floor  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-3104*

36. **Other Applicable Regulations** - The owner or operator shall comply with all applicable requirements of the following regulations:

| FEDERALLY ENFORCEABLE REGULATIONS |   |
|-----------------------------------|---|
| Regulation                        | Title   |
| 1.01                              | General Application of Regulations and Standards                    |
| 1.02                              | Definitions   |
| 1.03                              | Abbreviations and Acronyms  |
| 1.04                              | Performance Tests   |
| 1.05                              | Compliance with Emission Standards and Maintenance Requirements     |
| 1.06                              | Source Self-Monitoring and Reporting                                |
| 1.07                              | Emissions During Startups, Shutdowns, Malfunctions, and Emergencies |
| 1.08                              | Administrative Procedures   |
| 1.09                              | Prohibition of Air Pollution  |
| 1.10                              | Circumvention   |
| 1.11                              | Control of Open Burning   |
| 1.14                              | Control of Fugitive Particulate Emissions                           |
| 2.01                              | General Application   |

| <b>FEDERALLY ENFORCEABLE REGULATIONS</b> |  |
|--|--|
| <b>Regulation</b>                        | <b>Title</b>   |
| 2.02                                     | Air Pollution Regulation Requirements and Exemptions   |
| 2.03                                     | Permit Requirements - Non-Title V Construction and Operating Permits and Demolition/Renovation Permits         |
| 2.07                                     | Public Notification for Title V, PSD, and Offset Permits; SIP Revisions; and Use of Emission Reduction Credits |
| 2.09                                     | Causes for Permit Suspension   |
| 2.10                                     | Stack Height Considerations  |
| 2.11                                     | Air Quality Model Usage  |
| 2.16                                     | Title V Operating Permits  |
| 4.01                                     | General Provisions for Emergency Episodes  |
| 4.02                                     | Episode Criteria   |
| 4.03                                     | General Abatement Requirements   |
| 4.07                                     | Episode Reporting Requirements   |
| 5.01                                     | General Provisions (for Hazardous Air Pollutants)  |
| 5.03                                     | Potential Hazardous Emissions  |
| 6.01                                     | General Provisions (for <i>Existing Affected Facilities</i> )  |
| 6.02                                     | Emission Monitoring for Existing Sources   |
| 7.01                                     | General Provisions (for <i>New Affected Facilities</i> )   |

| <b>DISTRICT ONLY ENFORCEABLE REGULATIONS</b> |  |
|--|--|
| <b>Regulation</b>                            | <b>Title</b>   |
| 1.12   | Control of Nuisances   |
| 1.13   | Control of Objectionable Odors in the Ambient Air                                    |
| 2.08   | Emissions Fees, Permit Fees, Permit Renewal Procedures, and Additional Programs Fees |
| 8.03   | Commuter Vehicle Testing Requirements  |

37. **Stratospheric Ozone Protection Requirements** - Any facility having refrigeration equipment, including air conditioning equipment, which uses a Class I or II substance (listed in 40 CFR 82, Subpart A, Appendices A and B), and any facility which maintains, services, or repairs motor vehicles using a Class I or II substance as refrigerant must comply with all requirements of 40 CFR 82, Subparts A, B, and F. Those requirements include the following restrictions:

- a. Any facility having any refrigeration equipment normally containing fifty (50) pounds of refrigerant, or more, must keep servicing records documenting the date

and type of all service and the quantity of any refrigerant added according to 40 CFR 82.166;

- b. No person repairing or servicing a motor vehicle may perform any service on a motor vehicle air conditioner (MVAC) involving the refrigerant for such air conditioner unless the person has been properly trained and certified as provided in 40 CFR 82.34 and 40 CFR 82.40, and properly uses equipment approved according to 40 CFR 82.36 and 40 CFR 82.38, and complies with 40 CFR 82.42;
- c. No person may sell or distribute, or offer for sale or distribution, any substance listed as a Class I or II substance in 40 CFR 82, Subpart A, Appendices A and B, except in compliance with 40 CFR 82.34(b), 40 CFR 82.42, and/or 40 CFR 82.166.
- d. No person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the atmosphere any Class I or II substance used as a refrigerant in such equipment and no other person may open appliances (except MVACs as defined in 40 CFR 82.152) for service, maintenance, or repair unless the person has been properly trained and certified according to 40 CFR 82.161 and unless the person uses equipment certified for that type of appliance according to 40 CFR 82.158 and unless the person observes the practices set forth in 40 CFR 82.156 and 40 CFR 82.166;
- e. No person may dispose of appliances (except small appliances, as defined in 40 CFR 82.152) without using equipment certified for that type of appliance according to 40 CFR 82.158 and without observing the practices set forth in 40 CFR 82.156 and 40 CFR 82.166;
- f. No person may recover refrigerant from small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152), except in compliance with the requirements of 40 CFR 82 Subpart F;
- g. If the permittee manufactures, transforms, imports, or exports, a Class I or II substance (listed in 40 CFR 82, Subpart A, Appendices A and B), the permittee is subject to all requirements as specified in 40CFR82 Subpart A, Production and Consumption Controls.

(Regulation 2.16, section 4.1.5)

**Emission Unit U-4 Description:** Unit 4 steam generator for electric power generation

**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |  |
|--|---|--|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b>   |
| 6.02                                     | Emission Monitoring for Existing Sources  | 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18  |
| 6.07                                     | Standards of Performance for Existing Indirect Heat Exchangers  | 1, 2, 3, 4   |
| 6.09                                     | Standards of Performance for Existing Process Operations  | 1, 2, 3, 5   |
| 6.42                                     | Reasonably Available Control Technology Requirements for Major Volatile Organic Compound- and Nitrogen Oxides-Emitting Facilities | 1, 2, 3, 4, 5  |
| 6.47                                     | Federal Acid Rain Program for Existing Sources Incorporated by Reference  | 1, 2, 3, 4, 5  |
| 40 CFR Part 72                           | Permits Regulation  | Subparts A, B, C, D, E, F, G, H, I   |
| 40 CFR Part 73                           | Sulfur Dioxide Allowance System   | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 74                           | Sulfur Dioxide Opt-ins  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 75                           | Continuous Emission Monitoring  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 76                           | Acid Rain Nitrogen Oxides Emission Reduction Program  | 76.1, 76.2, 76.3, 76.4, 76.5, 76.7, 76.8, 76.9, 76.11, 76.13, 76.14, 76.15, Appendix A, Appendix B |
| 40 CFR Part 77                           | Excess Emissions  | 77.1, 77.2, 77.3, 77.4, 77.5, 77.6   |

| Federally Enforceable Regulations |  |  |
|-----------------------------------|--|--|
| Regulation                        | Title                                    | Applicable Sections  |
| 40 CFR Part 78                    | Appeals Procedures for Acid Rain Program | 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.8, 78.9, 78.10, 78.11, 78.13, 78.14, 78.15, 78.16, 78.17, 78.18, 78.19, 78.20 |

**Allowable Emissions:**

| Pollutant       | Standard                      |
|-----------------|-------------------------------|
| PM              | See Additional Condition 1.c. |
| Opacity         | See Additional Condition 1.d. |
| NO <sub>x</sub> | See Additional Condition 1.a. |
| SO <sub>2</sub> | See Additional Condition 1.b. |

**Components:**

- E-1 Dry bottom wall-fired boiler, nominal design rating of 1,639 MMBtu per hour, using pulverized coal as a primary fuel. Secondary fuel is natural gas. Control devices: C1 (Electrostatic precipitator) for PM and C2 (Sulfur dioxide removal system) for SO<sub>2</sub>
- E-2 Coal bunker with maximum loading capacity of 2000 tons/hour and particulate control device C7 (Dry centrifugal dust collector)



**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. NO<sub>x</sub>**

- i. The owner or operator shall not exceed 0.50 lb/MMBtu of heat input on an annual average basis. The Title IV Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.5 referencing 40 CFR Part 76)
- ii. The owner or operator shall not exceed the NO<sub>x</sub> RACT emissions standard of 0.52 lb/MMBtu of heat input based on a rolling 30-day average. The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached and considered part of this Title V Operating Permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

**b. SO<sub>2</sub>**

- i. The owner or operator shall not exceed 1.2 lb/MMBtu per hour heat input. (Regulation 6.07, section 4.1)
- ii. The Title IV, Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

**c. PM**

- i. For Emission Point E-1, the owner or operator shall not exceed an allowable particulate emission rate of 0.11 lbs/MMBtu heat input. (Regulation 6.07, section 3.1)
- ii. For Emission Point E-2, the owner or operator shall not exceed an allowable particulate emission rate of 86.9 lbs/hr. (Regulation 6.09, section 3.2)

**d. Opacity**

- i. For Emission Point E-1, the owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity, except emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity. (Regulation 6.07, section 3.2 and 3.3)
- ii. For Emission Point E-2, the owner or operator shall not cause, suffer, allow, or permit any gases that contain particulate matter that is equal to or greater

than 20% opacity. (Regulation 6.09, section 3.1)

2. **Monitoring** (Regulation 2.16, section 4.1.9.1)

a. **NO<sub>x</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEMS) for the measurement or calculation of nitrogen oxides in the flue gas. (Regulation 6.02, section 6.1.3, NO<sub>x</sub> RACT Plan and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(2))
- ii. The owner or operator shall maintain and operate District approved NO<sub>x</sub> RACT control technology in accordance with good engineering practice and the manufacturer's specifications. (Regulation 6.42, section 4.3)
- iii. The owner or operator shall demonstrate compliance with NO<sub>x</sub> RACT Plan limits by continuous emissions monitors (CEMs) as specified in the NO<sub>x</sub> RACT Plan attached and incorporated into this permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

b. **SO<sub>2</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEM) for the measurement of sulfur dioxide in the flue gas. (Regulation 6.02, section 6.1.2 and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(1))
- ii. The owner or operator shall comply with acid rain requirements specified in 40 CFR Part 73 Table 2. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

c. **PM**

- i. For Emission Point E-1, the owner or operator shall conduct annual EPA Reference Method 5 performance tests for particulate matter and monitor the ESP and wet scrubber daily as specified in Additional Condition 2.d.i.[3) and 4)].
- ii. There are no monitoring requirements for emission point E-2. (See Comment 4)

d. **Opacity**

- i. For Emission Point E-1:
  - 1) The owner or operator shall determine the opacity of emissions from

the stack by EPA Reference Method 9 weekly, by starting daily (Monday through Friday) at the beginning of the week to attempt to get a valid EPA Reference Method 9 test completed during that week. If the plumes are combined, an opacity reading shall be taken for informational purposes and it shall specify which plumes were combined to produce that opacity value.

- 2) The owner or operator shall use the initial PM performance test to correlate the data with opacity data obtained during the test to establish an alternate opacity trigger level. If excluding any opacity exemptions, any six minute average opacity value exceeds the trigger level, the owner or operator shall initiate an inspection of the process equipment, the control equipment and/or COM system and make any necessary repairs. If five percent or greater of the COM data (excluding exemptions) recorded in a calendar quarter show excursions above the trigger level, the owner or operator shall perform an EPA Reference Method 5 stack test in the following quarter. The District may waive this testing requirement upon demonstration that the cause(s) of the excursions have been corrected.
- 3) The owner or operator shall monitor daily the following for the wet scrubber:
  - a) Recycle Pump Amps must be  $> 10$  Amps
  - b) Recycle Pump On/Off Indication must be On
  - c) Reaction Tank pH must be  $> 5.5$  pH
  - d) Stack Temperature must be between 120-140°F
- 4) The owner or operator shall monitor daily the following for the Electrostatic Precipitator (ESP):
  - a) Precipitator Transformer/Rectifier Availability must be  $\geq 66\%$
  - b) Precipitator Secondary Kilowatts (KW) must be  $\geq 2$  KW
- ii. For Emission Point E-2, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)

a. **NO<sub>x</sub>**

- i. The owner or operator shall keep a record identifying all deviations from the requirements of the NO<sub>x</sub> RACT Plan.
- ii. The owner or operator shall comply with the NO<sub>x</sub> compliance plan requirements specified in the attached Acid Rain Permit, No.144-97-AR. These record keeping requirements shall be determined in accordance with the Title IV Phase II Acid Rain Permit and are specified in 40 CFR Part 75 Subpart F and 40 CFR Part 76 section 76.14. (Regulation 6.47, section 3.4 and 3.5 referencing 40 CFR Parts 75 and 76)
- iii. The owner or operator shall record on an hourly basis all NO<sub>x</sub> emission data specified in 40 CFR Part 75 section 75.50(d).

b. **SO<sub>2</sub>**

- i. The owner or operator shall maintain hourly records of SO<sub>2</sub> emissions as specified in Regulation 6.02, section 6.1.2.
- ii. The owner or operator shall comply with the SO<sub>2</sub> recordkeeping requirements in the Acid Rain Permit No.144-97-AR. This permit is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 and 3.4 referencing 40 CFR Parts 73 and 75)
- iii. The owner or operator shall record on an hourly basis all SO<sub>2</sub> emission data specified in 40 CFR 75.50(c).

c. **PM**

- i. For Emission Point E-1, the owner or operator shall maintain hourly records of fuel type and usage.
- ii. For Emission Point E-1, the owner or operator shall keep a record of each annual EPA Reference Method 5 performed.
- iii. For Emission Point E-2, there are no record keeping requirements for this emission point. (See Comment 4)

d. **Opacity**

- i. For Emission Point E-1,
  - 1) The owner or operator shall record every six minutes the COM output.

- 2) The owner or operator shall keep a record of every Method 9 test performed or the reason why it could not be performed that day and a record of every combined plume opacity reading.
  - 3) The owner or operator shall keep a daily record of each parameter that is required to be monitored in Additional Condition 2.d.i.3) and 2.d.i.4).
- ii. For Emission Point E-2, records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the quarterly reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report quarterly the following:

a. **NO<sub>x</sub>**

- i. For Emission point E-1:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- ii. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02 section 16.1.
- iii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

b. **SO<sub>2</sub>**

- i. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are

outlined in Regulation 6.02, section 16. (Regulation 6.02 section 16.1)

- ii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

c. **PM**

- i. For emission points E-1 and E-2,
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation
- ii. Report the results of the EPA Reference Method 5 stack test at least 60 days after completion of the stack test.

d. **Opacity**

- i. For emission point E-1, a written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02, section 16. (Regulation 6.02 section 16.1)
- ii. For emission point E-1:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Any parameter that exceeds the given ranges,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- iii. For emission point E-1, reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.
- iv. For Emission Point E-2:

- 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number
- 2) The beginning and ending date of the reporting period
- 3) The date, time and results of each exceedance of the opacity standard
- 4) Description of any corrective action taken for each exceedance

### **Comments**

1. For emission point E-1, the owner or operator has exercised the Acid Rain Program early election option and is required to limit NO<sub>x</sub> emissions from E-1 to 0.50 lb/MMBtu of heat input on an annual average basis, beginning on January 1, 1997 and continuing through December 31, 2007.
2. The NO<sub>x</sub> RACT requirements for E-1 are met by use of Low NO<sub>x</sub> Burners (LNB). NO<sub>x</sub> performance tests are not required under District Regulation 6.42 as CEMs are being used to demonstrate compliance.
3. The continuous opacity monitors (COM) is located in the ductwork downstream of the electrostatic precipitator and upstream of the scrubber. This location of the COM does not allow for compliance determination, it is simply an indicator of performance.
4. For Emission Point E-2, the owner or operator has shown, by worst-case calculations without allowance for a control device, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring, recordkeeping, or reporting is required to demonstrate compliance with the applicable PM standards specified in Regulation 6.09 is required for this emission point.

**Emission Unit U-5 Description:** Unit 5 steam generator for electric power generation

**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |  |
|--|---|--|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b>   |
| 6.02                                     | Emission Monitoring for Existing Sources  | 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18  |
| 6.07                                     | Standards of Performance for Existing Indirect Heat Exchangers  | 1, 2, 3, 4   |
| 6.09                                     | Standards of Performance for Existing Process Operations  | 1, 2, 3, 5   |
| 6.42                                     | Reasonably Available Control Technology Requirements for Major Volatile Organic Compound- and Nitrogen Oxides-Emitting Facilities | 1, 2, 3, 4, 5  |
| 6.47                                     | Federal Acid Rain Program for Existing Sources Incorporated by Reference  | 1, 2, 3, 4, 5  |
| 40 CFR Part 72                           | Permits Regulation  | Subparts A, B, C, D, E, F, G, H, I   |
| 40 CFR Part 73                           | Sulfur Dioxide Allowance System   | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 74                           | Sulfur Dioxide Opt-ins  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 75                           | Continuous Emission Monitoring  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 76                           | Acid Rain Nitrogen Oxides Emission Reduction Program  | 76.1, 76.2, 76.3, 76.4, 76.5, 76.7, 76.8, 76.9, 76.11, 76.13, 76.14, 76.15, Appendix A, Appendix B |
| 40 CFR Part 77                           | Excess Emissions  | 77.1, 77.2, 77.3, 77.4, 77.5, 77.6   |



| Federally Enforceable Regulations |  |  |
|-----------------------------------|--|--|
| Regulation                        | Title                                    | Applicable Sections  |
| 40 CFR Part 78                    | Appeals Procedures for Acid Rain Program | 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.8, 78.9, 78.10, 78.11, 78.13, 78.14, 78.15, 78.16, 78.17, 78.18, 78.19, 78.20 |

**Allowable Emissions:**

| Pollutant       | Standard                      |
|-----------------|-------------------------------|
| PM              | See Additional Condition 1.c. |
| Opacity         | See Additional Condition 1.d. |
| NO <sub>x</sub> | See Additional Condition 1.a. |
| SO <sub>2</sub> | See Additional Condition 1.b. |

**Components:**

- E-3 Dry bottom wall-fired boiler, nominal design rating of 1,857 MMBtu per hour, using pulverized coal as a primary fuel. Secondary fuel is natural gas. Control devices: C3 (Electrostatic precipitator) for PM and C4 (Sulfur dioxide removal system) for SO<sub>2</sub>
- E-4 Coal bunker with maximum loading capacity of 2000 tons/hour and particulate control device C8 (Dry centrifugal dust collector)

**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. NO<sub>x</sub>**

- i. The owner or operator shall not exceed 0.50 lb/MMBtu of heat input on an annual average basis. The Title IV Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.5 referencing 40 CFR Part 76)
- ii. The owner or operator shall not exceed the NO<sub>x</sub> RACT emissions standard of 0.52 lb/MMBtu of heat input based on a rolling 30-day average. The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached and considered part of this Title V Operating Permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

**b. SO<sub>2</sub>**

- i. The owner or operator shall not exceed 1.2 lb/MMBtu per hour heat input. (Regulation 6.07, section 4.1)
- ii. The Title IV, Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

**c. PM**

- i. For Emission Point E-3, the owner or operator shall not exceed an allowable particulate emission rate of 0.11 lbs/MMBtu heat input. (Regulation 6.07, section 3.1)
- ii. For Emission Point E-4, the owner or operator shall not exceed an allowable particulate emission rate of 86.9 lbs/hr. (Regulation 6.09, section 3.2)

**d. Opacity**

- i. For Emission Point E-3, the owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity, except emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity. (Regulation 6.07, section 3.2 and 3.3)
- ii. For Emission Point E-4, the owner or operator shall not cause, suffer, allow, or permit any gases that contain particulate matter that is equal to or greater

than 20% opacity. (Regulation 6.09, section 3.1)

2. **Monitoring** (Regulation 2.16, section 4.1.9.1)

a. **NO<sub>x</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEMS) for the measurement or calculation of nitrogen oxides in the flue gas. (Regulation 6.02, section 6.1.3, NO<sub>x</sub> RACT Plan and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(2))
- ii. The owner or operator shall maintain and operate District approved NO<sub>x</sub> RACT control technology in accordance with good engineering practice and the manufacturer's specifications. (Regulation 6.42, section 4.3)
- iii. The owner or operator shall demonstrate compliance with NO<sub>x</sub> RACT Plan limits by continuous emissions monitors (CEMs) as specified in the NO<sub>x</sub> RACT Plan attached and incorporated into this permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

b. **SO<sub>2</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEM) for the measurement of sulfur dioxide in the flue gas. (Regulation 6.02, section 6.1.2 and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(1))
- ii. The owner or operator shall comply with acid rain requirements specified in 40 CFR Part 73 Table 2. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

c. **PM**

- i. For Emission Point E-3, the owner or operator shall conduct annual EPA Reference Method 5 performance tests for particulate matter and monitor the ESP and wet scrubber daily as specified in Additional Condition 2.d.i.[3) and 4)].
- ii. There are no monitoring requirements for emission point E-4. (See Comment 4)

d. **Opacity**

- i. For Emission Point E-3:
  - 1) The owner or operator shall determine the opacity of emissions from

the stack by EPA Reference Method 9 weekly, by starting daily (Monday through Friday) at the beginning of the week to attempt to get a valid EPA Reference Method 9 test completed during that week. If the plumes are combined, an opacity reading shall be taken for informational purposes and it shall specify which plumes were combined to produce that opacity value.

- 2) The owner or operator shall use the initial PM performance test to correlate the data with opacity data obtained during the test to establish an alternate opacity trigger level. If excluding any opacity exemptions, any six minute average opacity value exceeds the trigger level, the owner or operator shall initiate an inspection of the process equipment, the control equipment and/or COM system and make any necessary repairs. If five percent or greater of the COM data (excluding exemptions) recorded in a calendar quarter show excursions above the trigger level, the owner or operator shall perform an EPA Reference Method 5 stack test in the following quarter. The District may waive this testing requirement upon demonstration that the cause(s) of the excursions have been corrected.
- 3) The owner or operator shall monitor daily the following for the wet scrubber:
  - a) Recycle Pump Amps must be  $> 10$  Amps
  - b) Recycle Pump On/Off Indication must be On
  - c) Reaction Pump pH must be  $> 5.5$  pH
  - d) Stack Temperature must be between 120-140°F
- 4) The owner or operator shall monitor daily the following for the Electrostatic Precipitator (ESP):
  - a) Precipitator Transformer/Rectifier Availability must be  $\geq 75\%$
  - b) Precipitator Secondary Kilowatts (KW) must be  $\geq 2$  KW
- ii. For Emission Point E-4, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

**3. Record Keeping** (Regulation 2.16, section 4.1.9.2)**a. NO<sub>x</sub>**

- i. The owner or operator shall keep a record identifying all deviations from the requirements of the NO<sub>x</sub> RACT Plan.
- ii. The owner or operator shall comply with the NO<sub>x</sub> compliance plan requirements specified in the attached Acid Rain Permit, No.144-97-AR. These record keeping requirements shall be determined in accordance with the Title IV Phase II Acid Rain Permit and are specified in 40 CFR Part 75 Subpart F and 40 CFR Part 76 section 76.14. (Regulation 6.47, section 3.4 and 3.5 referencing 40 CFR Parts 75 and 76)
- iii. The owner or operator shall record on an hourly basis all NO<sub>x</sub> emission data specified in 40 CFR Part 75 section 75.50(d).

**b. SO<sub>2</sub>**

- i. The owner or operator shall maintain hourly records of SO<sub>2</sub> emissions as specified in Regulation 6.02, section 6.1.2.
- ii. The owner or operator shall comply with the SO<sub>2</sub> recordkeeping requirements in the Acid Rain Permit No.144-97-AR. This permit is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 and 3.4 referencing 40 CFR Parts 73 and 75)
- iii. The owner or operator shall record on an hourly basis all SO<sub>2</sub> emission data specified in 40 CFR 75.50(c).

**c. PM**

- i. For Emission Point E-3, the owner or operator shall maintain hourly records of fuel type and usage.
- ii. For Emission Point E-3, the owner or operator shall keep a record of each annual EPA Reference Method 5 performed.
- iii. For Emission Point E-4, there are no record keeping requirements for this emission point.(See Comment 4)

**d. Opacity**

- i. For Emission Point E-3,
  - 1) The owner or operator shall record every six minutes the COM output.

- 2) The owner or operator shall keep a record of every Method 9 test performed or the reason why it could not be performed that day and a record of every combined plume opacity reading.
  - 3) The owner or operator shall keep a daily record of each parameter that is required to be monitored in Additional Condition 2.d.i.3) and 2.d.i.4).
- ii. For Emission Point E-4, records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the quarterly reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report quarterly the following:

a. **NO<sub>x</sub>**

- i. For Emission point E-3:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- ii. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02 section 16.1.
- iii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

b. **SO<sub>2</sub>**

- i. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are

outlined in Regulation 6.02 Section 16. (Regulation 6.02 section 16.1)

- ii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

c. **PM**

- i. For emission points E-3 and E-4,
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation
- ii. Report the results of the EPA Reference Method 5 stack test at least 60 days after completion of the stack test.

d. **Opacity**

- i. For emission point E-3, a written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02, section 16. (Regulation 6.02 section 16.1)
- ii. For emission point E-3:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Any parameter that exceeds the given ranges,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- iii. For emission point E-3, reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.
- iv. For Emission Point E-4:

- 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number
- 2) The beginning and ending date of the reporting period
- 3) The date, time and results of each exceedance of the opacity standard
- 4) Description of any corrective action taken for each exceedance

### **Comments**

1. For emission point E-3, the owner or operator has exercised the Acid Rain Program early election option and is required to limit NO<sub>x</sub> emissions from E-3 to 0.50 lb/MMBtu of heat input on an annual average basis, beginning on January 1, 1997 and continuing through December 31, 2007.
2. The NO<sub>x</sub> RACT requirements for E-3 are met by use of Low NO<sub>x</sub> Burners (LNB). NO<sub>x</sub> performance tests are not required under District Regulation 6.42 as CEMs are being used to demonstrate compliance.
3. The continuous opacity monitors (COM) is located in the ductwork downstream of the electrostatic precipitator and upstream of the scrubber. This location of the COM does not allow for compliance determination, it is simply an indicator of performance.
4. For Emission Point E-4, the owner or operator has shown, by worst-case calculations without allowance for a control device, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring, recordkeeping, or reporting is required to demonstrate compliance with the applicable PM standards specified in Regulation 6.09 is required for this emission point.



**Emission Unit U-6 Description:** Unit 6 steam generator for electric power generation

**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |  |
|--|---|--|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b>   |
| 6.02                                     | Emission Monitoring for Existing Sources  | 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18  |
| 6.07                                     | Standards of Performance for Existing Indirect Heat Exchangers  | 1, 2, 3, 4   |
| 6.09                                     | Standards of Performance for Existing Process Operations  | 1, 2, 3, 5   |
| 6.42                                     | Reasonably Available Control Technology Requirements for Major Volatile Organic Compound- and Nitrogen Oxides-Emitting Facilities | 1, 2, 3, 4, 5  |
| 6.47                                     | Federal Acid Rain Program for Existing Sources Incorporated by Reference  | 1, 2, 3, 4, 5  |
| 40 CFR Part 72                           | Permits Regulation  | Subparts A, B, C, D, E, F, G, H, I   |
| 40 CFR Part 73                           | Sulfur Dioxide Allowance System   | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 74                           | Sulfur Dioxide Opt-ins  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 75                           | Continuous Emission Monitoring  | Subparts A, B, C, D, E, F, G   |
| 40 CFR Part 76                           | Acid Rain Nitrogen Oxides Emission Reduction Program  | 76.1, 76.2, 76.3, 76.4, 76.5, 76.7, 76.8, 76.9, 76.11, 76.13, 76.14, 76.15, Appendix A, Appendix B |
| 40 CFR Part 77                           | Excess Emissions  | 77.1, 77.2, 77.3, 77.4, 77.5, 77.6   |

| Federally Enforceable Regulations |  |  |
|-----------------------------------|--|--|
| Regulation                        | Title                                    | Applicable Sections  |
| 40 CFR Part 78                    | Appeals Procedures for Acid Rain Program | 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.8, 78.9, 78.10, 78.11, 78.13, 78.14, 78.15, 78.16, 78.17, 78.18, 78.19, 78.20 |

**Allowable Emissions:**

| Pollutant       | Standard                      |
|-----------------|-------------------------------|
| PM              | See Additional Condition 1.c. |
| Opacity         | See Additional Condition 1.d. |
| NO <sub>x</sub> | See Additional Condition 1.a. |
| SO <sub>2</sub> | See Additional Condition 1.b. |

**Components:**

- E-5 Tangentially fired boiler, nominal design rating of 2,453 MMBtu per hour, using pulverized coal as a primary fuel. Secondary fuel is natural gas. Control devices: C5 (Electrostatic precipitator) for PM and C6 (Sulfur dioxide removal system) for SO<sub>2</sub>
- E-6 Coal bunker with maximum loading capacity of 2000 tons/hour and particulate control device C9 (Dry centrifugal dust collector)

**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. NO<sub>x</sub>**

- i. The owner or operator shall not exceed 0.45 lb/MMBtu of heat input on an annual average basis. The Title IV Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.5 referencing 40 CFR Part 76)
- ii. The owner or operator shall not exceed the NO<sub>x</sub> RACT emissions standard of 0.47 lb/MMBtu of heat input based on a rolling 30-day average. The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached and considered part of this Title V Operating Permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

**b. SO<sub>2</sub>**

- i. The owner or operator shall not exceed 1.2 lb/MMBtu per hour heat input. (Regulation 6.07, section 4.1)
- ii. The Title IV, Phase II, Acid Rain Permit No.144-97-AR is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

**c. PM**

- i. For Emission Point E-5, the owner or operator shall not exceed an allowable particulate emission rate of 0.11 lbs/MMBtu heat input. (Regulation 6.07, section 3.1)
- ii. For Emission Point E-6, the owner or operator shall not exceed an allowable particulate emission rate of 86.9 lbs/hr. (Regulation 6.09, section 3.2)

**d. Opacity**

- i. For Emission Point E-5, the owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity, except emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity. (Regulation 6.07, section 3.2 and 3.3)
- ii. For Emission Point E-6, the owner or operator shall not cause, suffer, allow, or permit any gases that contain particulate matter that is equal to or greater

than 20% opacity. (Regulation 6.09, section 3.1)

2. **Monitoring** (Regulation 2.16, section 4.1.9.1)

a. **NO<sub>x</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEMS) for the measurement or calculation of nitrogen oxides in the flue gas. (Regulation 6.02, section 6.1.3, NO<sub>x</sub> RACT Plan and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(2))
- ii. The owner or operator shall maintain and operate District approved NO<sub>x</sub> RACT control technology in accordance with good engineering practice and the manufacturer's specifications. (Regulation 6.42, section 4.3)
- iii. The owner or operator shall demonstrate compliance with NO<sub>x</sub> RACT Plan limits by continuous emissions monitors (CEMs) as specified in the NO<sub>x</sub> RACT Plan attached and incorporated into this permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)

b. **SO<sub>2</sub>**

- i. The owner or operator shall install, maintain, calibrate and operate a continuous emission monitoring system (CEM) for the measurement of sulfur dioxide in the flue gas. (Regulation 6.02, section 6.1.2 and Regulation 6.47, section 3.4 referencing 40 CFR 75.10(a)(1))
- ii. The owner or operator shall comply with acid rain requirements specified in 40 CFR Part 73 Table 2. (Regulation 6.47, section 3.2 referencing 40 CFR Part 73, Acid Rain Allowances are specified in Table 2)

c. **PM**

- i. For Emission Point E-5, the owner or operator shall conduct annual EPA Reference Method 5 performance tests for particulate matter and monitor the ESP and wet scrubber daily as specified in Additional Condition 2.d.i.[3) and 4)].
- ii. There are no monitoring requirements for emission point E-6. (See Comment 4)

d. **Opacity**

- i. For Emission Point E-5:
  - 1) The owner or operator shall determine the opacity of emissions from

the stack by EPA Reference Method 9 weekly, by starting daily (Monday through Friday) at the beginning of the week to attempt to get a valid EPA Reference Method 9 test completed during that week. If the plumes are combined, an opacity reading shall be taken for informational purposes and it shall specify which plumes were combined to produce that opacity value.

- 2) The owner or operator shall use the initial PM performance test to correlate the data with opacity data obtained during the test to establish an alternate opacity trigger level. If, excluding any opacity exemptions, any six minute average opacity value exceeds the trigger level, the owner or operator shall initiate an inspection of the process equipment, the control equipment and/or COM system and make any necessary repairs. If five percent or greater of the COM data (excluding exemptions) recorded in a calendar quarter show excursions above the trigger level, the owner or operator shall perform an EPA Reference Method 5 stack test in the following quarter. The District may waive this testing requirement upon demonstration that the cause(s) of the excursions have been corrected.
  - 3) The owner or operator shall monitor daily the following for the wet scrubber:
    - a) Recycle Pump Amps must be  $> 10$  Amps
    - b) Recycle Pump On/Off Indication must be On
    - c) Reaction Pump Bleed pH must be  $> 5.5$  pH
    - d) Stack Temperature must be between 120-140°F
  - 4) The owner or operator shall monitor daily the following for the Electrostatic Precipitator (ESP):
    - a) Precipitator Transformer/Rectifier Availability must be  $\geq 66\%$
    - b) Precipitator Secondary Kilowatts (KW) must be  $\geq 2$  KW
- ii. For Emission Point E-6, the owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

**3. Record Keeping** (Regulation 2.16, section 4.1.9.2)**a. NO<sub>x</sub>**

- i. The owner or operator shall keep a record identifying all deviations from the requirements of the NO<sub>x</sub> RACT Plan.
- ii. The owner or operator shall comply with the NO<sub>x</sub> compliance plan requirements specified in the attached Acid Rain Permit, No.144-97-AR. These record keeping requirements shall be determined in accordance with the Title IV Phase II Acid Rain Permit and are specified in 40 CFR Part 75 Subpart F and 40 CFR Part 76 section 76.14. (Regulation 6.47, section 3.4 and 3.5 referencing 40 CFR Parts 75 and 76)
- iii. The owner or operator shall record on an hourly basis all NO<sub>x</sub> emission data specified in 40 CFR Part 75 section 75.50(d).

**b. SO<sub>2</sub>**

- i. The owner or operator shall maintain hourly records of SO<sub>2</sub> emissions as specified in Regulation 6.02, section 6.1.2.
- ii. The owner or operator shall comply with the SO<sub>2</sub> recordkeeping requirements in the Acid Rain Permit No.144-97-AR. This permit is attached and considered part of this Title V Operating Permit. (Regulation 6.47, section 3.2 and 3.4 referencing 40 CFR Parts 73 and 75)
- iii. The owner or operator shall record on an hourly basis all SO<sub>2</sub> emission data specified in 40 CFR 75.50(c).

**c. PM**

- i. For Emission Point E-5, the owner or operator shall maintain hourly records of fuel type and usage.
- ii. For Emission Point E-5, the owner or operator shall keep a record of each annual EPA Reference Method 5 performed.
- iii. For Emission Point E-6, there are no record keeping requirements for this emission point.(See Comment 4)

**d. Opacity**

- i. For Emission Point E-5,
  - 1) The owner or operator shall record every six minutes the COM output.

- 2) The owner or operator shall keep a record of every Method 9 test performed or the reason why it could not be performed that day and a record of every combined plume opacity reading.
  - 3) The owner or operator shall keep a daily record of each parameter that is required to be monitored in Additional Condition 2.d.i.3) and 2.d.i.4).
- ii. For Emission Point E-6, records of the results of all visible emission surveys and tests performed shall be maintained and shall include the date and time of the survey; the name of the person conducting the survey; and whether visible emissions were observed.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the quarterly reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report quarterly the following:

a. **NO<sub>x</sub>**

- i. For Emission point E-5:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- ii. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02 section 16.1.
- iii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

b. **SO<sub>2</sub>**

- i. A written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are

outlined in Regulation 6.02 Section 16. (Regulation 6.02 section 16.1)

- ii. Reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.

c. **PM**

- i. For emission points E-5 and E-6,
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Identification of all periods during which a deviation occurred,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation
- ii. Report the results of the EPA Reference Method 5 stack test at least 60 days after completion of the stack test.

d. **Opacity**

- i. For emission point E-5, a written report of excess emissions and the nature and cause of the excess emissions if known. The minimum data requirements for these reports are outlined in Regulation 6.02, section 16. (Regulation 6.02 section 16.1)
- ii. For emission point E-5:
  - 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number,
  - 2) The beginning and ending date of the reporting period,
  - 3) Any parameter that exceeds the given ranges,
  - 4) A description, including the magnitude, of the deviation,
  - 5) If known, the cause of the deviation, and
  - 6) Description of any corrective action taken for each deviation.
- iii. For emission point E-5, reporting requirements for the Title IV Phase II Acid Rain Permit are specified in 40 CFR Part 75 Subpart G. Notifications, Monitoring Plans, Initial Certification and Recertification Applications, Quarterly Reports, Opacity Reports, Petitions to the Administrator, and Retired Unit Petitions shall be submitted as specified in Subpart G- Reporting Requirements.
- iv. For Emission Point E-6:



- 1) Emission Unit ID number, Stack ID number, and/or Emission point ID number
- 2) The beginning and ending date of the reporting period
- 3) The date, time and results of each exceedance of the opacity standard
- 4) Description of any corrective action taken for each exceedance

### **Comments**

1. For emission point E-5, the owner or operator has exercised the Acid Rain Program early election option and is required to limit NO<sub>x</sub> emissions from E-5 to 0.45 lb/MMBtu of heat input on an annual average basis, beginning on January 1, 1997 and continuing through December 31, 2007.
2. The NO<sub>x</sub> RACT requirements for E-5 are met by use of Low NO<sub>x</sub> Burners (LNB). NO<sub>x</sub> performance tests are not required under District Regulation 6.42 as CEMs are being used to demonstrate compliance.
3. The continuous opacity monitors (COM) is located in the ductwork downstream of the electrostatic precipitator and upstream of the scrubber. This location of the COM does not allow for compliance determination, it is simply an indicator of performance.
4. For Emission Point E-6, the owner or operator has shown, by worst-case calculations without allowance for a control device, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring, recordkeeping, or reporting is required to demonstrate compliance with the applicable PM standards specified in Regulation 6.09 is required for this emission point.

**Emission Unit U-11 Description:** Gas Combustion Turbine**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |                            |
|--|---|----------------------------|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b> |
| 6.42                                     | Reasonably Available Control Technology Requirements for Major Volatile Organic Compound- and Nitrogen Oxides-Emitting Facilities | 1, 2, 3, 4, 5              |

**Allowable Emissions:**

| <b>Pollutant</b> | <b>Standard</b>             |
|------------------|-----------------------------|
| NO <sub>x</sub>  | See Additional Condition 1. |

**Components:**

E-7 Natural gas combustion turbine (GT 11), nominal design rating of 247 MMBtu per hour, using natural gas as a primary fuel. Secondary fuel is #2 fuel oil. Installed in 1964.

**Additional Conditions**1. **Standards** (Regulation 2.16, section 4.1.1)**NO<sub>x</sub>**

- i. The owner or operator shall comply with the NO<sub>x</sub> RACT Plan attached and considered part of this Title V Operating Permit. (See NO<sub>x</sub> RACT Attachment) (Regulation 6.42, section 4.3)
- ii. The owner or operator shall not exceed 500 hours per calendar year. (See NO<sub>x</sub> RACT Attachment)

2. **Monitoring** (Regulation 2.16, section 4.1.9.1)**NO<sub>x</sub>**

See Additional Condition 3.

3. **Record Keeping** (Regulation 2.16, section 4.1.9.2)**NO<sub>x</sub>**

The owner or operator shall maintain daily records of the amount of fuel combusted and the hours of operation of the equipment.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the quarterly reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report quarterly the following:

**NO<sub>x</sub>**

- i. Emission Unit ID number, Stack ID number, and/or Emission point ID number,
- ii. The beginning and ending date of the reporting period,
- iii. Identification of all periods during which a deviation occurred,
- iv. A description, including the magnitude, of the deviation,
- v. If known, the cause of the deviation, and
- vi. Description of any corrective action taken for each deviation.

**Emission Unit U-7 Description:** Sludge Processing Plant (SPP)**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |                            |
|--|---|----------------------------|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b> |
| 7.08                                     | Standards of Performance for New Process Operations | 1, 2, 3                    |

| <b>District Enforceable Regulations</b> |  |                            |
|---|--|----------------------------|
| <b>Regulation</b>                       | <b>Title</b>   | <b>Applicable Sections</b> |
| 5.11                                    | Standards of Performance for Existing Sources<br>Emitting Toxic Air Pollutants | 1, 2, 3, 4, 5, 6           |

**Allowable Emissions:**

| <b>Pollutant</b> | <b>Standard</b>               |
|------------------|-------------------------------|
| PM               | See Additional Condition 1.a. |
| Opacity          | See Additional Condition 1.b. |
| TAP              | See Additional Condition 1.c. |

**Components:**

- E-8 Unit 4 Flyash, controlled by baghouse (C10)
- E-9 North Bin, controlled by two baghouses (C11)
- E-10 Unit 4 & 5 SPP Flyash, controlled by baghouse (C12)
- E-11 Unit 4 & 5 SPP Lime, controlled by baghouse (C13)
- E-12 Unit 4 & 5 SPP Pug Mill Mixer, controlled by dust collector (C14)
- E-13 Unit 6 SPP Flyash, controlled by baghouse (C15)
- E-14 Unit 6 SPP Lime, controlled by baghouse (C16)
- E-15 Unit 6 SPP Pug Mill Mixer, controlled by dust collector (C17)

**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. PM**

- i. The owner or operator shall limit PM emissions from emission points E-8 and E-9 to 12 lb/hr. (Regulation 7.08, section 3.3)
- ii. The owner or operator shall limit PM emissions from emission points E-10 and E-13 to 23 lb/hr. (Regulation 7.08, section 3.3)
- iii. The owner or operator shall limit PM emissions from emission points E-11 and E-14 to 29.57 lb/hr. (Regulation 7.08, section 3.3)
- iv. The owner or operator shall limit PM emissions from emission point E-12 to 35.9 lb/hr. (Regulation 7.08, section 3.3)
- v. The owner or operator shall limit PM emissions from emission point E-15 to 30.57 lb/hr. (Regulation 7.08, section 3.3)

**b. Opacity**

The owner or operator shall not cause to be discharged into the atmosphere any gases that contain PM that is equal to or greater than 20% opacity. (Regulation 7.08, section 3.2)

**c. TAP**

The owner or operator shall not allow TAP emissions to exceed the ASL, unless RACT or modeling is performed. (Regulation 5.11)

**2. Monitoring** (Regulation 2.16, section 4.1.9.1)**a. PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring to demonstrate compliance with the applicable PM standards specified in Regulation 7.08 is required for this emission unit.

**b. Opacity**

The owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously. For Emission Points without observed visible emissions during twelve consecutive operating weeks,

the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

c. **TAP**

See Additional Condition 3.c.

3. **Record keeping** (Regulation 2.16, section 4.1.9.2)

a. **PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional recordkeeping to demonstrate compliance with the applicable PM standards specified in Regulation 7.08 is required for this emission unit.

b. **Opacity**

The owner or operator shall maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date and time of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an Emission Point is not being operated at any time during the monitoring period, then no visible emission survey needs to be performed and a negative declaration may be entered in the record.

c. **TAP**

The owner or operator shall calculate and record monthly TAP emissions using a 30-day material balance, and ascertain that the adjusted significant level (ASL) has not been exceeded; and make these records available to the District upon request.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the semi-annual reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report semi-annually the following:

a. **PM**

There are no compliance reporting requirements for this pollutant.

b. **Opacity**

- i. Emission Unit ID number and Emission point ID number
- ii. The beginning and ending date of the reporting period
- iii. The date, time and results of each Method 9 that exceeded the opacity standards
- iv. The number of surveys that visible emissions were observed
- v. Description of any corrective action taken

c. **TAP**

- i. Emission Unit ID number and Emission point ID number
- ii. The beginning and ending date of the reporting period
- iii. Identification of all periods of exceedances of the ASL
- iv. Description of any corrective action taken for each exceedance

**Emission Unit U-8 Description:** Unit 6 SDRS Soda Ash Storage Silo

**Applicable Regulations:**

| Federally Enforceable Regulations |   |                     |
|-----------------------------------|---|---------------------|
| Regulation                        | Title   | Applicable Sections |
| 7.08                              | Standards of Performance for New Process Operations | 1, 2, 3             |

**Allowable Emissions:**

| Pollutant | Standard                      |
|-----------|-------------------------------|
| PM        | See Additional Condition 1.a. |
| Opacity   | See Additional Condition 1.b. |

**Components:**

E-16 Soda Ash Storage Silo, controlled by baghouse (C18)



**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. PM**

The owner or operator shall limit PM emissions from emission point E-16 to 24.9 lb/hr. (Regulation 7.08, section 3.3)

**b. Opacity**

The owner or operator shall not cause to be discharged into the atmosphere any gases that contain PM that is equal to or greater than 20% opacity. (Regulation 7.08, section 3.2)

**2. Monitoring** (Regulation 2.16, section 4.1.9.1)**a. PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring to demonstrate compliance with the applicable PM standards specified in Regulation 7.08 is required for this emission unit.

**b. Opacity**

The owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

**3. Record keeping** (Regulation 2.16, section 4.1.9.2)**a. PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional recordkeeping to demonstrate compliance with the applicable PM standards specified

in Regulation 7.08 is required for this emission unit.

b. **Opacity**

The owner or operator shall maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date and time of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an Emission Point is not being operated at any time during the monitoring period, then no visible emission survey needs to be performed and a negative declaration may be entered in the record.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the semi-annual reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report semi-annually the following:

a. **PM**

There are no compliance reporting requirements for this pollutant.

b. **Opacity**

- i. Emission Unit ID number and Emission point ID number
- ii. The beginning and ending date of the reporting period
- iii. The date, time and results of each Method 9 that exceeded the opacity standards
- iv. The number of surveys that visible emissions were observed
- v. Description of any corrective action taken

**Emission Unit U-9 Description:** Stage I gasoline fueling station

**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |  |  |
|--|--|--|
| <b>Regulation</b>                        | <b>Title</b>   | <b>Sections</b>                          |
| 6.40                                     | Standards of Performance for Gasoline Transfer to Motor Vehicles (Stage II Vapor Recovery)                   | 1.3                                      |
| 7.15                                     | Standards of Performance for Gasoline Transfer to New Service Station Storage Tanks (Stage I Vapor Recovery) | 1, 2, 3.1, 3.3, 3.4, 3.6, 3.7, 3.8 and 5 |

| <b>District Enforceable Regulations</b> |  |                 |
|---|--|-----------------|
| <b>Regulation</b>                       | <b>Title</b>                                   | <b>Sections</b> |
| 5.14                                    | Hazardous Air Pollutants and Source Categories | 1, 2, 3         |

**Allowable Emissions:**

| <b>Pollutant</b> | <b>Standards</b>            |
|------------------|-----------------------------|
| VOC              | See Additional Condition 1. |

**Components:**

E-17 Stage I gasoline refueling station including of one 560 gallon unleaded gasoline storage tank

**Additional Conditions**1. **Standards** (Regulation 2.16, section 4.1.1)**VOC** (Regulation 7.15, section 3)

- a. The owner or operator shall install, maintain and operate the storage tank with a submerged fill pipe, vent line restrictions, a vapor balance system, and vapor tight connections on the liquid fill and vapor return hoses.
- b. The owner or operator shall not allow delivery of fuel to the storage tanks until the vapor balance system is properly connected.
- c. The owner or operator shall not allow delivery of gasoline to a service station without connecting the vapor return hose between the tank of the truck and the storage tank receiving the product.
- d. The owner or operator shall maintain all above ground tanks with dry breaks
- e. The owner or operator shall operate and maintain equipment with no defects and all fill tubes shall be equipped with vapor-tight covers including gaskets; all hoses, fittings and couplings shall be in vapor-tight condition; and all dry breaks shall have vapor tight seals and shall be equipped with vapor tight covers or dust covers.
- f. The owner or operator shall not exceed 10000 gallons of throughput per month, in order to be exempted from Regulation 6.40, except for the recordkeeping and reporting requirements. (Regulation 6.40, section 1.3)

2. **Monitoring** (Regulation 2.16, section 4.1.9.1)**VOC**

There are no monitoring requirements for this pollutant.

3. **Record keeping** (Regulation 2.16, section 4.1.9.2)**VOC** (Regulation 6.40, section 3.1.1)

The owner or operator shall keep a record of the amount of throughput of gasoline per month to determine compliance with Additional Condition 1.f.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)**VOC**

The owner or operator shall submit a report within 30 days of December 16 every

year showing that they are still exempt from Regulation 6.40.

**Emission Unit U-10 Description:** Material Handling-Fossil Fuel**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |  |                                   |
|--|--|-----------------------------------|
| <b>Regulation</b>                        | <b>Title</b>   | <b>Applicable Sections</b>        |
| 7.08                                     | Standards of Performance for New Process Operations  | 1, 2, 3                           |
| 40 CFR 60 Subpart A                      | General Provisions                                   | 60.1 through 60.19                |
| 40 CFR 60 Subpart Y                      | Standards of Performance for Coal Preparation Plants | 60.250, 60.251, 60.252(c), 60.254 |

| <b>District Enforceable Regulations</b> |  |                       |
|---|--|-----------------------|
| <b>Regulation</b>                       | <b>Title</b>   | <b>Sections</b>       |
| 7.02                                    | Federal New Source Performance Standards Incorporated by Reference | 1.1, 1.38, 2, 3, 4, 5 |

**Allowable Emissions:**

| <b>Pollutant</b> | <b>Standard</b>               |
|------------------|-------------------------------|
| PM               | See Additional Condition 1.a. |
| Opacity          | See Additional Condition 1.b. |

**Components:**

E-18 Radial Stacker  
E-20 Coal Crusher  
E-21 Coal Conveyor Belts

**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**a. PM**

The owner or operator shall limit PM emissions from emission points E-18, E-20, and E-21 to 58.41 lb/hr each. (Regulation 7.08, section 3.3)

**b. Opacity**

The owner or operator shall not cause to be discharged into the atmosphere any gases that contain PM that is equal to or greater than 20% opacity. (Regulation 7.08, section 3.2 and 40 CFR 60.252(c))

**2. Monitoring** (Regulation 2.16, section 4.1.9.1)**a. PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional monitoring to demonstrate compliance with the applicable PM standards specified in Regulation 7.08 is required for this emission unit.

**b. Opacity**

The owner or operator shall conduct a weekly one-minute visible emissions survey, during normal operation and daylight hours, of the PM Emission Points (stacks). No more than four Emission Points shall be observed simultaneously. For Emission Points without observed visible emissions during twelve consecutive operating weeks, the owner or operator may elect to conduct a monthly one-minute visible emission survey, during normal operation and daylight hours. No more than four Emission Points shall be observed simultaneously. At Emission Points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9 for emissions within 24 hours of the initial observation. If the opacity standard is exceeded, the owner or operator shall report the exceedance to the District, according to Regulation 1.07, and take all practicable steps to eliminate the exceedance.

**3. Record keeping** (Regulation 2.16, section 4.1.9.2)**a. PM**

The owner or operator has shown, by worst-case calculations, that the hourly uncontrolled PM emission standard cannot be exceeded; therefore, no additional recordkeeping to demonstrate compliance with the applicable PM standards specified

in Regulation 7.08 is required for this emission unit.

b. **Opacity**

The owner or operator shall maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date and time of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an Emission Point is not being operated at any time during the monitoring period, then no visible emission survey needs to be performed and a negative declaration may be entered in the record.

4. **Reporting** (Regulation 2.16, section 4.1.9.3)

The owner or operator shall clearly identify all deviations from permit requirements in the semi-annual reports. All reports shall be certified by a responsible official as defined in Regulation 2.16, section 2.36. If no deviations occur in that reporting period then the owner or operator shall report a negative declaration for each of the following categories. The owner or operator shall report semi-annually the following:

a. **PM**

There are no compliance reporting requirements for this pollutant.

b. **Opacity**

- i. Emission Unit ID number and Emission point ID number
- ii. The beginning and ending date of the reporting period
- iii. The date, time and results of each Method 9 that exceeded the opacity standards
- iv. The number of surveys that visible emissions were observed
- v. Description of any corrective action taken



**Emission Unit U-12 Description:** Non-halogenated cold solvent parts cleaners

**Applicable Regulations:**

| <b>Federally Enforceable Regulations</b> |   |                            |
|--|---|----------------------------|
| <b>Regulation</b>                        | <b>Title</b>  | <b>Applicable Sections</b> |
| 6.18                                     | Standards of Performance for Solvent Metal Cleaning Equipment | 1, 2, 3, 4                 |

**Allowable Emissions:**

| <b>Pollutant</b> | <b>Standard</b>             |
|------------------|-----------------------------|
| VOC              | See Additional Condition 1. |

**Additional Conditions****1. Standards** (Regulation 2.16, section 4.1.1)**VOC** (Regulation 6.18, section 4.1, 4.2, 4.3.2)

- a. The cleaner shall be equipped with a cover.
- b. The cleaner shall be equipped with a drainage facility such that VOC that drains off parts removed from the cleaner will return to the cleaner.
- c. A permanent, conspicuous label summarizing the operating requirements specified in Additional Conditions 1.e., 1.f., and 1.g. shall be installed on or near the cleaner.
- d. If used, the VOC spray shall be a fluid stream (not a fine, atomized, or shower type spray) at a pressure that does not cause excessive splashing.
- e. Do not dispose of waste VOC or transfer it to another party in a manner that more than 20% by weight of the waste VOC can evaporate into the atmosphere. Store waste VOC only in covered containers.
- f. Close degreaser cover whenever not handling a part in the cleaner.
- g. Drain cleaned parts until dripping ceases (15 seconds is usually necessary).
- h. The owner or operator shall not operate a cold cleaning degreaser with a solvent vapor pressure that exceeds 1.0 mm Hg (0.019 psi) measured at 20°C (68°F).

**2. Monitoring** (Regulation 2.16, section 4.1.9.1.2)**VOC**

The owner or operator shall conduct monthly inspections to verify ongoing compliance with the control and operational requirements specified in Additional Condition 1.

**3. Record Keeping** (Regulation 2.16, section 4.1.9.2)**VOC** (Regulation 6.18, section 4.4)

- a. The owner or operator shall maintain records that include the following for each purchase:
  - i. The name and address of the solvent supplier,
  - ii. The date of the purchase,

- iii. The type of the solvent, and
    - iv. The vapor pressure of the solvent measured in mm Hg at 20°C (68°F).
  - b. All records required by section 4.4 shall be retained for 5 years and made available to the District upon request.
  - c. The owner or operator shall maintain records of the results of the inspections specified in Additional Condition 2.
4. **Reporting** (Regulation 2.16, section 4.1.9.3)

**VOC**

There are no compliance reporting requirements for this pollutant

### Permit Shield

The owner or operator is hereby granted a permit shield that shall apply as long as the owner or operator demonstrates ongoing compliance with all conditions of this permit. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements of the regulations cited in this permit as of the date of issuance, pursuant to Regulation 2.16, section 4.6.1.

### Off-Permit Documents

There are no off-permit documents associated with this Title V permit.

### Alternative Operating Scenario

The company requested no alternative operating scenario in its Title V application.

| Insignificant Activities   |          |                                  |
|--|----------|----------------------------------|
| Description  | Quantity | Basis                            |
| Fuel or Lubricating oils storage tanks with vapor pressure <10mm Hg @ 20 deg C                     | Various  | Regulation 2.02, section 2.3.9.2 |
| Storage tanks-diesel or fuel oil-not for sale, resale or distribution-annual turnover <2X capacity | Various  | Regulation 2.02, section 2.3.25  |
| Minor combustion sources <10 MMBtu/hr  | Various  | Regulation 2.02, section 2.1.1   |
| Internal combustion engines  | Various  | Regulation 2.02, section 2.2     |
| Brazing, soldering, or welding equipment   | Various  | Regulation 2.02, section 2.3.4   |
| Emergency relief vents for boiler steam supply   | Various  | Regulation 2.02, section 2.3.10  |
| Lab exhaust systems  | Various  | Regulation 2.02, section 2.3.11  |
| Soil or groundwater remediation projects-passive or total removal                                  | Various  | Regulation 2.02, section 2.3.20  |
| Portable fuel storage tanks (capacity less than 500 gallons)                                       | Various  | Regulation 2.02, section 2.3.23  |
| Ashpond with wet storage   | 1        | No applicable regulation         |
| Infrequent evaporation of boiler cleaning solutions  | Various  | No applicable regulation         |
| Infrequent burning of deminimus quantities of used oil for energy recovery                         | Various  | No applicable regulation         |

| <b>Insignificant Activities</b> |                 |                          |
|---------------------------------|-----------------|--------------------------|
| <b>Description</b>              | <b>Quantity</b> | <b>Basis</b>             |
| Enclosed sandblasting equipment | Various         | No applicable regulation |
| Landfill                        | 1               | No applicable regulation |
| Paved and Unpaved Roads         | Various         | No applicable regulation |

- A. Insignificant Activities are only those activities or processes falling into the general categories defined in Regulation 2.02, Section 2, and not associated with a specific operation or process for which there is a specific regulation. Equipment associated with a specific operation or process (Emission Unit) shall be listed with the specific process even though there may be no applicable requirements. Information contained in the permit and permit summary shall clearly indicate that those items identified with negligible emissions have no applicable requirements.
- B. Activities identified In Regulation 2.02, Section 2, may not require a permit and may be insignificant with regard to application disclosure requirements but may still have generally applicable requirements that continue to apply to the source and must be included in the Title V permit.
- i. No facility, having been designated as an insignificant activity, shall be exempt from any generally applicable requirements which shall include a 20% opacity limit for facilities not otherwise regulated.
  - ii. No periodic monitoring shall be required for facilities designated as insignificant activities.
- C. The Insignificant Activities table is correct as of the date of the permit was proposed for review by the USEPA, Region 4. The company shall submit an updated list of insignificant activities annually with the Title V compliance certification pursuant to District Regulation 2.16, section 4.3.5.3.6.

**NO<sub>x</sub> RACT Plan - Amendment 1**

1. The oxides of nitrogen (NO<sub>x</sub>, expressed as NO<sub>2</sub>) emission from each utility boiler shall not exceed the rate as specified below, based upon a rolling 30-day average:

Unit 4 0.52 lb/mmBtu of heat input

Unit 5 0.52 lb/mmBtu of heat input

Unit 6 0.47 lb/mmBtu of heat input

2. The NO<sub>x</sub> emission rate for each utility boiler shall be determined using the methods and procedures specified in NO<sub>x</sub> RACT Plan Appendix A - Amendment 1, except that any reference to an annual average shall be read as a rolling 30-day average.
3. The Louisville Gas and Electric Company Cane Run Generating Station (LG&E/CRGS) shall install, maintain, and operate a NO<sub>x</sub> continuous emissions monitoring system (CEMS) for each utility boiler and shall keep records and submit reports and other notifications as specified in NO<sub>x</sub> RACT Plan Appendix A - Amendment 1.
4. The GT-11 turbine shall not be operated for more than 500 hours per calendar year.
5. The LG&E/CRGS shall make a record of the hours of operation during each day of operation of the GT-11 turbine. Each record shall be maintained for a minimum of 5 years and made available to the District upon request.
6. The quarterly report required by this NO<sub>x</sub> RACT Plan Element (Element) No. 7 shall include a summary of the monthly and calendar-year-to-date hours of operation of the GT-11 gas turbine .
7. The LG&E/CRGS shall keep a record identifying all deviations from the requirements of this NO<sub>x</sub> RACT Plan and shall submit to the District a written report of all deviations that occurred during the preceding calendar quarter. The report shall contain the following information:
  - A. The boiler number,
  - B. The beginning and ending date of the reporting period,
  - C. Identification of all periods during which a deviation occurred,
  - D. A description, including the magnitude, of the deviation,
  - E. If known, the cause of the deviation, and
  - F. A description of all corrective actions taken to abate the deviation.If no deviation occurred during the calendar quarter, the report shall contain a negative declaration. Each report shall be submitted within 30 days following the end of the calendar quarter.
8. In lieu of the requirements in this NO<sub>x</sub> RACT Plan, the LG&E/CRGS may comply with alternative requirements regarding emission limitations, equipment operation, test methods, monitoring, recordkeeping, or reporting, provided the following conditions are met:
  - A. The alternative requirements are established and incorporated into an operating permit pursuant to a Title V Operating Permit issuance, renewal, or

- significant permit revision process as established in Regulation 2.16,
- B. The alternative requirements are consistent with the streamlining procedures and guidelines set forth in section II.A. of *White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program*, March 5, 1996, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. The overall effect of compliance with alternative requirements shall consider the effect on an intrinsic basis, such as pounds per million Btu of heat input. However, alternative requirements that are developed based upon revisions to the applicable requirements contained in 40 CFR Part 60 or Part 75 shall be approvable pursuant to this NO<sub>x</sub> RACT Plan Element,
  - C. The U.S. Environmental Protection Agency (EPA) has not objected to the issuance, renewal, or revision of the Title V Operating Permit, and either
  - D. If the public comment period preceded the EPA review period, then the District had transmitted any public comments concerning the alternative requirements to EPA with the proposed permit, or
  - E. If the EPA and public comment periods ran concurrently, then the District had transmitted any public comments concerning the alternative requirements to EPA no later than 5 working days after the end of the public comment period.

The District's determination of approval of any alternative requirements is not binding on EPA. Noncompliance with any alternative requirement established pursuant to the Title V Operating Permit process constitutes a violation of this NO<sub>x</sub> RACT Plan.

History: Approved 11-8-99; effective 1-1-00; amended a1/10-18-00 effective 1-1-01.

**Appendix A to NO<sub>x</sub> RACT Plan - Amendment 1**  
**Requirements for NO<sub>x</sub> CEMS**

**I. General Operating Requirements**

- A. Primary measurement requirements.** The LG&E/CRGS shall, for each utility boiler, install, certify, operate, and maintain, in accordance with the requirements of 40 CFR 75, an oxides of nitrogen (NO<sub>x</sub>) continuous emission monitoring system (CEMS), consisting of a NO<sub>x</sub> pollutant concentration monitor and an oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) diluent gas monitor, with an automated data acquisition and handling system for measuring and recording NO<sub>x</sub> concentration (in parts per million [ppm]), O<sub>2</sub> or CO<sub>2</sub> concentration (in percent O<sub>2</sub> or CO<sub>2</sub>) and NO<sub>x</sub> emission rate (in lb/mmBtu of heat input) discharged to the atmosphere. Any reference in this Appendix to an annual average shall be read as a rolling 30-day average. The LG&E/CRGS shall account for total NO<sub>x</sub> emissions, both nitrogen oxide (NO) and nitrogen dioxide (NO<sub>2</sub>), either by monitoring for both NO and NO<sub>2</sub> or by monitoring for NO only and adjusting the emissions data to account for NO<sub>2</sub>.
- B. Primary equipment performance requirements.** The LG&E/CRGS shall ensure that each CEMS used to demonstrate compliance with the NO<sub>x</sub> emission limit meets the equipment, installation, and performance specifications in 40 CFR 75 Appendix A, and is maintained according to the quality assurance and quality control procedures in 40 CFR 75 Appendix B. The NO<sub>x</sub> emission rate for each utility boiler shall be recorded as lb/mmBtu of heat input.
- C. Primary equipment hourly operating requirements.**
1. The LG&E/CRGS shall ensure that all CEMS are in operation and monitoring the emissions from the associated utility boiler at all times that the utility boiler combusts any fuel except during a period of any of the following:
    - a. Calibration, quality assurance, or preventive maintenance, any of which is performed pursuant to 40 CFR §75.21, 40 CFR 75 Appendix B, District regulations, District permit conditions, or this NO<sub>x</sub> RACT Plan, or
    - b. Repair, backups of data from the data acquisition and handling system, or recertification, any of which is performed pursuant to 40 CFR §75.20.
  2. The LG&E/CRGS shall ensure that the following requirements are met:
    - a. Each CEMS and component thereof is capable of completing a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute interval. The LG&E/CRGS shall reduce all volumetric flow, CO<sub>2</sub> concentration, O<sub>2</sub> concentration, NO<sub>x</sub> concentration, and NO<sub>x</sub> emission rate data collected by the monitors to hourly averages. Hourly averages shall be computed using at least one data point in each 15-minute quadrant of an hour during which the utility boiler combusted fuel during that quadrant of the hour. Notwithstanding this requirement, an hourly average may be computed from at least two data points separated by a minimum of 15



minutes (where the unit operates for more than one quadrant of the hour) if data are unavailable as a result of the performance of any activity specified in paragraph I.C.1. of this Appendix. The LG&E/CRGS shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour.

- b. Failure of a CO<sub>2</sub> or O<sub>2</sub> diluent concentration monitor, flow monitor, or NO<sub>x</sub> pollutant concentration monitor to acquire the minimum number of data points for calculation of an hourly average shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. An hourly average NO<sub>x</sub> emission rate in lb/mmBtu of heat input is valid only if the minimum number of data points are acquired by both the pollutant concentration monitor (NO<sub>x</sub>) and the diluent monitor (CO<sub>2</sub> or O<sub>2</sub>). If a valid hour of data is not obtained, the owner or operator shall estimate and record emissions, moisture, or flow data for the missing hour by means of the automated data acquisition and handling system, in accordance with the applicable procedure for missing data substitution in 40 CFR 75 Subpart D .

- D. Optional backup monitor requirements.** If the LG&E/CRGS chooses to use two or more CEMS, each of which is capable of monitoring the same stack or duct at a specific utility boiler, then the LG&E/CRGS shall designate one CEMS as the primary monitoring system and shall record this designation in the monitoring plan. The LG&E/CRGS shall designate any other CEMS as a backup CEMS in the monitoring plan. Any other backup CEMS shall be designated as a redundant backup CEMS, non-redundant backup CEMS, or reference method CEMS, as described in 40 CFR §75.20(d). When the certified primary monitoring system is operating and not out-of-control as defined in 40 CFR §75.24, only data from the certified primary monitoring system shall be reported as valid, quality-assured data. Thus, data from a backup CEMS may be reported as valid, quality-assured data only when a backup CEMS is operating and not out-of-control as defined in 40 CFR §75.24 or in the applicable reference method in 40 CFR 60 Appendix A and when the certified primary monitoring system is not operating or is operating but out-of-control. A particular monitor may be designated both as a certified primary monitor for one unit and as a certified redundant backup monitor for another unit.
- E. Minimum measurement capability requirements.** Each CEMS and component thereof shall be capable of accurately measuring, recording, and reporting data, and shall not incur a full scale exceedance, except as provided in section 2.1.2.5 of 40 CFR 75 Appendix A.
- F.** The LG&E/CRGS shall not operate a utility boiler so as to discharge, or allow to be discharged, emissions of NO<sub>x</sub> to the atmosphere without accounting for all such emissions in accordance with the methods and procedures specified in this Appendix.

- G.** The LG&E/CRGS shall not disrupt the CEMS, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NO<sub>x</sub> emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the provisions of this Appendix.
- H.** The LG&E/CRGS shall not retire or permanently discontinue use of the CEMS, any component thereof, or any other approved emission monitoring system under this Appendix except under any one of the following circumstances:
1. The LG&E/CRGS is monitoring NO<sub>x</sub> emissions from the utility boiler with another certified monitoring system approved in accordance with the provisions of paragraph I.D. of this Appendix, or
  2. The LG&E/CRGS submits notification of the date of certification testing of a replacement monitoring system.
- I.** The quality assurance and quality control requirements in 40 CFR §75.21 that apply to NO<sub>x</sub> pollutant concentration monitors and diluent gas monitors shall be met. A NO<sub>x</sub> pollutant concentration monitor for determining NO<sub>x</sub> emissions shall meet the same certification testing requirements, quality assurance requirements, and bias test requirements as those specified in 40 CFR 75 for an SO<sub>2</sub> pollutant concentration monitor.
- J.** **Moisture correction.** If a correction for the stack gas moisture content is needed to properly calculate the NO<sub>x</sub> emission rate in lb/mmBtu of heat input (i.e., if the NO<sub>x</sub> pollutant concentration monitor measures on a different moisture basis from the diluent monitor), LG&E/CRGS shall either report a fuel-specific default moisture value for each utility boiler operating hour, as provided in 40 CFR §75.11(b)(1), or shall install, operate, maintain, and quality assure a continuous moisture monitoring system, as defined in 40 CFR §75.11(b)(2). Notwithstanding this requirement, if Equation 19-3, 19-4 or 19-8 in Method 19 in Appendix A to 40 CFR Part 60 is used to measure NO<sub>x</sub> emission rate, the following fuel-specific default moisture percentages shall be used in lieu of the default values specified in 40 CFR §75.11(b)(1): 5.0%, for anthracite coal; 8.0% for bituminous coal; 12.0% for sub-bituminous coal; 13.0% for lignite coal; and 15.0% for wood.

**II. Specific Provisions for Monitoring NO<sub>x</sub> Emission Rate (NO<sub>x</sub> and diluent gas monitors)**

- A.** The LG&E/CRGS shall meet the general operating requirements in 40 CFR §75.10 for a NO<sub>x</sub> CEMS for each utility boiler. The diluent gas monitor in the NO<sub>x</sub> CEMS may measure either O<sub>2</sub> or CO<sub>2</sub> concentration in the flue gases.
- B.** The LG&E/CRGS shall calculate hourly and rolling 30-day NO<sub>x</sub> emission rates (in lb/mmBtu of heat input) by combining the NO<sub>x</sub> concentration (in ppm), diluent concentration (in percent O<sub>2</sub> or CO<sub>2</sub>), and percent moisture (if applicable) measurements according to the procedures in 40 CFR 75 Appendix F.

### III. Monitoring plan

The LG&E/CRGS shall prepare and maintain a monitoring plan as specified in 40 CFR 75.53. The monitoring plan shall be submitted to the District no later than 45 days prior to the first scheduled certification test.

### IV. Recordkeeping Provisions

- A. The LG&E/CRGS shall maintain for each utility boiler a file of all measurements, data, reports, and other information required by this Appendix at the stationary source in a form suitable for inspection for at least 5 years from the date of each record. This file shall contain the following information:
1. The data and information required in paragraph IV.B. of this Appendix,
  2. The component data and information used to calculate values required in paragraph IV.B. of this Appendix,
  3. The current monitoring plan as specified in 40 CFR §75.53, and
  4. The quality control plan as described in 40 CFR 75 Appendix B.
- B. **NO<sub>x</sub> emission record provisions.** The LG&E/CRGS shall record hourly the following information as measured and reported from the certified primary monitor, certified back-up or certified portable monitor, or other approved method of emissions determination for each utility boiler:
1. Date and hour,
  2. Hourly average NO<sub>x</sub> concentration (ppm, rounded to the nearest tenth),
  3. Hourly average diluent gas concentration (percent O<sub>2</sub> or percent CO<sub>2</sub>, rounded to the nearest tenth),
  4. Hourly average NO<sub>x</sub> emission rate (lb/mmBtu of heat input, rounded to nearest hundredth),
  5. Hourly average NO<sub>x</sub> emission rate (lb/mmBtu of heat input, rounded to nearest hundredth) adjusted for bias, if a bias adjustment factor is required by 40 CFR §75.24 (d),
  6. Percent monitoring system data availability (recorded to the nearest tenth of a percent), calculated pursuant to 40 CFR §75.32,
  7. Method of determination for hourly average NO<sub>x</sub> emission rate using Codes 1-55 in 40 CFR §75.57 Table 4A, and
  8. Unique code identifying emissions formula used to derive hourly average NO<sub>x</sub> emission rate, as provided for in 40 CFR §75.53.

### V. Certification, Quality Assurance, and Quality Control Record Provisions

- A. For each NO<sub>x</sub> pollutant concentration monitor and diluent gas monitor, the LG&E/CRGS shall record the following:
1. Results of all trial runs and certification tests and quality assurance activities and measurements (including all reference method field test sheets, charts, records of combined system responses, laboratory analyses, and example calculations) necessary to substantiate compliance with all relevant

- requirements of this Appendix,
  - 2. Bias test results as specified in 40 CFR 75, Appendix A, section 7.6.4,
  - 3. The appropriate bias adjustment factor as follows:
    - a. The value derived from Equations A-11 and A-12 in 40 CFR 75 Appendix A for any monitoring system or component that failed the bias test, or
    - b. A value of 1.0 for any monitoring system or component that passed the bias test, and
  - 4. The component/system identification code.
- B.** For each NO<sub>x</sub> pollutant concentration monitor and diluent gas monitor, the LG&E/CRGS shall record the following for all daily and 7-day calibration error tests, including any follow-up tests after corrective action:
- 1. Instrument span and span scale,
  - 2. Date and hour,
  - 3. Reference value (i.e., calibration gas concentration or reference signal value, in ppm or other appropriate units),
  - 4. Observed value (monitor response during calibration, in ppm or other appropriate units), (flag if using alternative performance specification for low emitters or differential pressure monitors),
  - 5. Percent calibration error (rounded to the nearest tenth of a percent),
  - 6. Calibration gas level,
  - 7. Test number and reason for test,
  - 8. For 7-day calibrations tests for certification or recertification, a certification from the cylinder gas vendor or CEMS vendor that calibration gases as defined in 40 CFR §72.2 and 40 CFR 75 Appendix A were used to conduct calibration error testing,
  - 9. Description of any adjustments, corrective actions, or maintenance following a test,
  - 10. For quality test for off-line calibration, whether the unit is off-line or on-line, and
  - 11. The component/system identification code.
- C.** For each NO<sub>x</sub> pollutant concentration monitor and diluent gas monitor, the LG&E/CRGS shall record the following for the initial and all subsequent linearity checks, including any follow-up tests after corrective action:
- 1. Instrument span and span scale,
  - 2. Calibration gas level,
  - 3. Date, hour, and minute of each gas injection at each calibration gas level,
  - 4. Reference value (i.e., reference gas concentration for each gas injection at each calibration gas level, in ppm or other appropriate units),
  - 5. Observed value (monitor response to each reference gas injection at each calibration gas level, in ppm or other appropriate units),
  - 6. Mean of reference values and mean of measured values at each calibration gas level,
  - 7. Linearity error at each of the reference gases concentrations (rounded to the nearest tenth of a percent), (flag if using alternative performance specification),
  - 8. Test number and reason for test (flag if aborted test),

9. Description of any adjustments, corrective action, or maintenance prior to a passed test or following a failed test,
  10. The number of out-of-control hours, if any, following any tests, and
  11. The component/system identification code.
- D.** For each NO<sub>x</sub> pollutant concentration monitor and diluent gas monitor, the LG&E/CRGS shall record the following information for the initial and all subsequent relative accuracy tests and test audits:
1. Reference method(s) used,
  2. Individual test run data from the relative accuracy test audit for the NO<sub>x</sub> pollutant concentration monitor or diluent gas monitor, including:
    - a. Date, hour, and minute of beginning of test run,
    - b. Date, hour, and minute of end of test run,
    - c. Monitoring system identification code,
    - d. Test number and reason for test,
    - e. Operating load level (low, mid, high, or normal, as appropriate) and number of load levels comprising test,
    - f. Normal load indicator for flow RATAs (except for peaking units),
    - g. Units of measure,
    - h. Run number,
    - i. Run data from CEMS being tested, in the appropriate units of measure,
    - j. Run data for reference method, in the appropriate units of measure,
    - k. Flag value (0, 1, or 9, as appropriate) indicating whether run has been used in calculating relative accuracy and bias values or whether the test was aborted prior to completion,
    - l. Average gross unit load (expressed as a total gross unit load rounded to the nearest MWe or as steam load rounded to the nearest thousand lb/hr), and
    - m. Flag to indicate whether an alternative performance specification has been used,
  3. Calculations and tabulated results, as follows:
    - a. Arithmetic mean of the monitoring system measurement values, reference method values, and of their differences, as specified in Equation A-7 in 40 CFR 75 Appendix A,
    - b. Standard deviation, as specified in Equation A-8 in 40 CFR 75 Appendix A,
    - c. Confidence coefficient, as specified in Equation A-9 in 40 CFR 75 Appendix A,
    - d. Statistical “t” value used in calculations,
    - e. Relative accuracy test results, as specified in Equation A-10 in 40 CFR 75 Appendix A,
    - f. Bias test results as specified in section 7.6.4 in 40 CFR 75 Appendix A,
    - g. Bias adjustment factor from Equation A-12 in 40 CFR 75 Appendix A for any monitoring system or component that failed the bias test (except as otherwise provided in section 7.6.5 in 40 CFR 75 Appendix A) and 1.000 for any monitoring system or component that passed the bias test,
    - h. F-factor value(s) used to convert NO<sub>x</sub> pollutant concentration and diluent gas (O<sub>2</sub> or CO<sub>2</sub>) concentration measurements into NO<sub>x</sub> emission rates (in lb/mmBtu),
    - i. The raw data and calculated results for any stratification tests performed in accordance with sections 6.5.6.1 through 6.5.6.3 in 40 CFR 75 Appendix A, and
    - j. For moisture monitoring systems, the coefficient “K” factor or other mathematical

algorithm used to adjust the monitoring system with respect to the reference method,

4. Description of any adjustment, corrective action, or maintenance prior to a passed test or following a failed or aborted test,
5. For each run of each test using Method 7E or 3A in Appendix A of 40 CFR 60 to determine NO<sub>x</sub>, CO<sub>2</sub>, or O<sub>2</sub> concentration the following:
  - a. Pollutant or diluent gas being measured,
  - b. Span of reference method analyzer,
  - c. Type of reference method system (e.g., extractive or dilution type),
  - d. Reference method dilution factor (dilution type systems, only),
  - e. Reference gas concentration (low, mid, and high gas levels) used for the 3-point, pre-test analyzer calibration error test (or, for dilution type reference method systems, for the 3-point, pre-test system calibration error test) and for any subsequent recalibrations,
  - f. Analyzer responses to the zero-, mid-, and high-level calibration gases during the 3-point pre-test analyzer (or system) calibration error test and during any subsequent recalibration(s),
  - g. Analyzer calibration error at each gas level (zero, mid, and high) for the 3-point, pre-test analyzer (or system) calibration error test and for any subsequent recalibration(s) (percent of span value),
  - h. Upscale gas concentration (mid or high gas level) used for each pre-run or post-run system bias check or, for dilution type reference method systems, for each pre-run or post-run system calibration error check,
  - i. Analyzer response to the calibration gas for each pre-run or post-run system bias (or system calibration error) check,
  - j. The arithmetic average of the analyzer responses to the zero-level gas, for each pair of pre- and post-run system bias (or system calibration error) checks,
  - k. The arithmetic average of the analyzer responses to the upscale calibration gas, for each pair of pre- and post-run system bias (or system calibration error) checks,
  - l. The results of each pre-run and each post-run system bias (or system calibration error) check using the zero-level gas (percentage of span value),
  - m. The results of each pre-run and each post-run system bias (or system calibration error) check using the upscale calibration gas (percentage of span value),
  - n. Calibration drift and zero drift of analyzer during each RATA run (percentage of span value),
  - o. Moisture basis of the reference method analysis,
  - p. Moisture content of stack gas, in percent, during each test run (if needed to convert to moisture basis of CEMS being tested),
  - q. Unadjusted (raw) average pollutant or diluent gas concentration for each run,
  - r. Average pollutant or diluent gas concentration for each run, corrected for calibration bias (or calibration error) and, if applicable, corrected for moisture,
  - s. The F-factor used to convert reference method data to units of lb/mmBtu (if applicable)
  - t. Date(s) of the latest analyzer interference test(s),
  - u. Results of the latest analyzer interference test(s),
  - v. Date of the latest NO<sub>2</sub> to NO conversion test (Method 7E only),
  - w. Results of the latest NO<sub>2</sub> to NO conversion test (Method 7E only), and

- x. For each calibration gas cylinder used during each RATA, record the cylinder gas vendor, cylinder number, expiration date, pollutant(s) in the cylinder, and certified gas concentration(s),
- 6. The number of out-of-control hours, if any, following any tests, and
- 7. The component/system identification code.

## **VI. Notifications**

- A.** The LG&E/CRGS or a designated representative shall submit notice to the District for the following purposes, as required by this Appendix:
  - 1. Initial certification and recertification test notifications. Written notification shall be submitted of initial certification tests, recertification tests, and revised test dates as specified in 40 CFR §75.20 for continuous emission monitoring systems, except for testing only of the data acquisition and handling system, and
  - 2. Notification of initial certification testing. Initial certification test notifications shall be submitted not later than 45 days prior to the first scheduled day of initial certification testing. Testing may be performed on a date other than that already provided in a notice under this subparagraph as long as notice of the new date is provided either in writing or by telephone or other means at least 7 days prior to the original scheduled test date or the revised test date, whichever is earlier.
- B.** For retesting following a loss of certification under 40 CFR §75.20(a)(5) or for recertification under 40 CFR §75.20(b), notice of testing shall be submitted either in writing or by telephone at least 7 days prior to the first scheduled day of testing, except that in emergency situations when testing is required following an uncontrollable failure of equipment that results in lost data, notice shall be sufficient if provided within 2 business days following the date when testing is scheduled. Testing may be performed on a date other than that already provided in a notice under this subparagraph as long as notice of the new date is provided by telephone or other means at least 2 business days prior to the original scheduled test date or the revised test date, whichever is earlier.
- C.** Notwithstanding the notice requirements of paragraph B. above, the LG&E/CRGS may elect to repeat a certification test immediately, without advance notification, whenever the LG&E/CRGS has determined during the certification testing that a test was failed or that a second test is necessary in order to attain a reduced relative accuracy test frequency.
- D.** Written notice shall be submitted, either by mail or facsimile, of the date of periodic relative accuracy testing performed under 40 CFR Part 75 Appendix B no later than 21 days prior to the first scheduled day of testing. Testing may be performed on a date other than that already provided in a notice under this subparagraph as long as notice of the new date is provided either in writing or by telephone or other means acceptable to the District, and the notice is provided as soon as practicable after the new testing date is known, but no later than 24 hours in advance of the new date of testing.
- E.** Notwithstanding the notice requirements under paragraph D. above, the LG&E/CRGS may elect to repeat a periodic relative accuracy test immediately, without additional notification whenever the LG&E/CRGS has determined that a test was failed, or that a second test is

necessary in order to attain a reduced relative accuracy test frequency. If an observer from the District is present when a test is rescheduled, the observer may waive all notification requirements under paragraph D. above for the rescheduled test.

## **VII. Quarterly reports**

- A.** The LG&E/CRGS shall, within 30 days following the end of each calendar quarter, submit a report to the District that includes the following data and information for each utility boiler:
  - 1. The information and hourly data required in this Appendix, including all emissions and quality assurance data, and
  - 2. Average NO<sub>x</sub> emission rate (lb/mmBtu of heat input, rounded to the nearest hundredth) during the rolling 30-day averaging periods.
- B.** The LG&E/CRGS shall submit a certification in support of each quarterly emissions monitoring report. This certification shall indicate whether the monitoring data submitted were recorded in accordance with the requirements of this Appendix. In the event of any missing data periods, this certification shall include a description of the measures taken to minimize or eliminate the causes for the missing data periods.



Permit # 175-00-TV (R1)

Plant ID 0126

**Title IV Phase II Acid Rain Permit**